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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Adnan M.M. Mjalli et. al.
Ser. No. : 10/091,759
Filing Date : March 5, 2002
For : CARBOXAMIDE DERIVATIVES AS THERAPEUTIC AGENTS
Examiner : Zina Northington-Davis
Art Unit : 1625

COMMISSIONER FOR PATENTS
P.O. Box 1450
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Preliminary Amendment, Election and Response

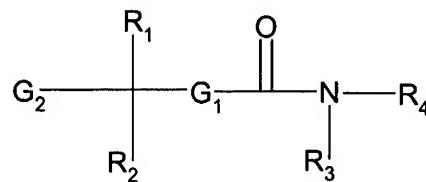
Sir:

This Response is being submitted in response to the Office Action mailed April 10, 2003. Applicants are required to elect a single disclosed species for examination and to list claims readable thereon.

Applicants respectfully request entry of the following amendments to claims 12, 13, 18, 19, 20, 21 and 22.

Applicants respectfully request cancellation of claims 8, 9 and 10 without prejudice to or disclaimer of the subject matter contained therein.

1. (Original) A compound of Formula (I):



(I)

wherein

G_1 comprises C_1 - C_6 alkylene or $(CH_2)_k$, where k is 0 to 3;

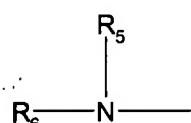
G_2 comprises a) hydrogen

b) - C_{1-6} alkyl;

c) -aryl;

d) - C_{1-6} alkylaryl ;

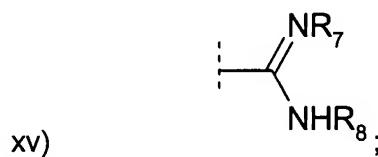
e)



where R_5 and R_6 independently comprise

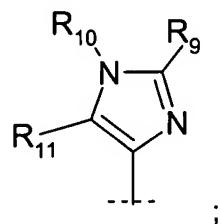
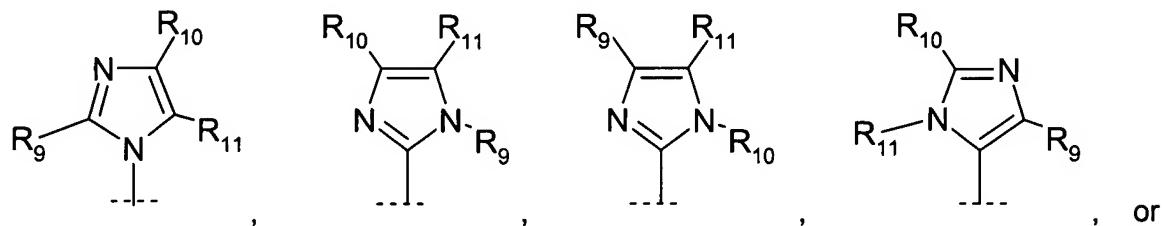
- i) -H;
- ii) - C_{1-6} alkyl;
- iii) -aryl;
- iv) - C_{1-6} alkylaryl;
- v) - $C(O)-O-C_{1-6}$ alkyl;
- vi) - $C(O)-O-C_{1-6}$ alkylaryl;
- vii) - $C(O)-O-C_{1-6}$ alkylcycloalkylaryl;

- viii) $-\text{C}(\text{O})\text{-NH-C}_{1-6}\text{ alkyl};$
- ix) $-\text{C}(\text{O})\text{-NH-C}_{1-6}\text{ alkylaryl};$
- x) $-\text{SO}_2\text{-C}_{1-6}\text{ alkyl};$
- xi) $-\text{SO}_2\text{-C}_{1-6}\text{ alkylaryl};$
- xii) $-\text{SO}_2\text{-aryl};$
- xiii) $-\text{SO}_2\text{-NH-C}_{1-6}\text{ alkyl};$
- xiv) $-\text{SO}_2\text{-NH-C}_{1-6}\text{ alkylaryl};$



- xvi) $-\text{C}(\text{O})\text{-C}_{1-6}\text{ alkyl};$ or
- xvii) $-\text{C}(\text{O})\text{-C}_{1-6}\text{ alkylaryl};$ or

f) a group of the formula



wherein

$\text{R}_9, \text{R}_{10},$ and R_{11} may comprise hydrogen; or

$\text{R}_9, \text{R}_{10},$ and R_{11} independently comprise

- i) $-C_{1-6}$ alkyl;
- ii) -aryl;
- iii) $-C_{1-6}$ alkylaryl;
- iv) $-C(O)-O-C_{1-6}$ alkyl;
- v) $-C(O)-O-C_{1-6}$ alkylaryl;
- vi) $-C(O)-NH-C_{1-6}$ alkyl;
- vii) $-C(O)-NH-C_{1-6}$ alkylaryl;
- viii) $-SO_2-C_{1-6}$ alkyl;
- ix) $-SO_2-C_{1-6}$ alkylaryl;
- x) $-SO_2$ -aryl;
- xi) $-SO_2-NH-C_{1-6}$ alkyl;
- xii) $-SO_2-NH-C_{1-6}$ alkylaryl;
- xiii) $-C(O)-C_{1-6}$ alkyl; or
- xiv) $-C(O)-C_{1-6}$ alkylaryl;

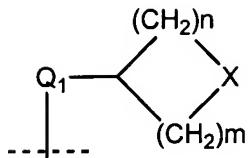
R_{10} and R_{11} may be taken together to constitute a fused cycloalkyl, fused heterocyclyl, or fused aryl ring containing the atoms to which R_{10} and R_{11} are bonded;

R_1 comprises

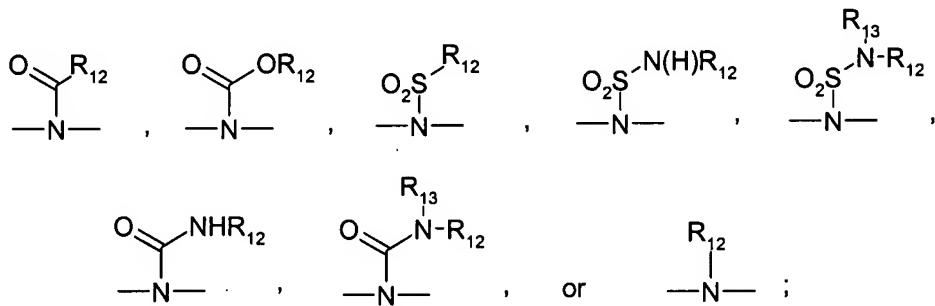
- a) hydrogen;
- b) $-C_{1-6}$ alkyl;
- c) -aryl; or
- d) $-C_{1-6}$ alkylaryl;

R_2 comprises

- a) $-C_{1-6}$ alkyl;
- b) -aryl;
- c) $-C_{1-6}$ alkylaryl; or
- d) a group of the formula



wherein m and n are independently selected from 1, 2, 3, or 4; X comprises a direct bond, CH_2 -, $-\text{O}$ -, $-\text{S}$ -, $-\text{S}(\text{O}_2)$ -, $-\text{C}(\text{O})$ -, $-\text{CON}(\text{H})$ -, $-\text{NHC}(\text{O})$ -, $-\text{NHCON}(\text{H})$ -, $-\text{NHSO}_2$ -, $-\text{SO}_2\text{N}(\text{H})$ -, $-\text{C}(\text{O})\text{O}$ -, $-\text{O}-\text{C}(\text{O})$ -, $-\text{NHSO}_2\text{NH}$ -,



-Q₁- comprises C_{1-6} alkylene, C_{2-6} alkenylene, or C_{2-6} alkynylene;

R₃ comprises

- a) hydrogen;
- b) $-\text{C}_{1-6}$ alkyl;
- c) $-\text{C}_{1-6}$ alkylaryl; or
- d) $-\text{C}_{1-6}$ alkoxyaryl;

R₄ comprises

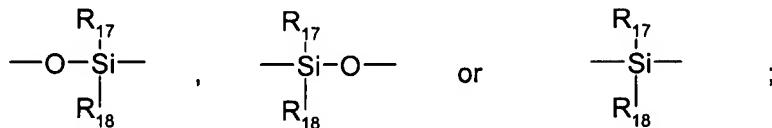
- a) $-\text{C}_{1-6}$ alkylaryl;
- b) $-\text{C}_{1-6}$ alkoxyaryl; or
- c) -aryl;

R₇, R₈, R₁₂ and R₁₃ independently comprise hydrogen, C_{1-6} alkyl, C_{1-6} alkylaryl, or aryl; and wherein

the aryl and/or alkyl group(s) in R₁, R₂, R₃, R₄, R₅, R₆, R₇, R₈, R₉, R₁₀, R₁₁, R₁₂, and R₁₃ may be optionally substituted 1-4 times with a substituent group, wherein said substituent group(s) or the term substituted refers to groups comprising:

- a) -H;
- b) -Y-C₁₋₆ alkyl;
-Y-aryl;
-Y-C₁₋₆ alkylaryl;
-Y-C₁₋₆-alkyl-NR₁₄R₁₅;
-Y-C₁₋₆-alkyl-W-R₁₆;

wherein Y and W independently comprise -CH₂-, -O-, -N(H), -S-, SO₂-, -CON(H)-, -NHC(O)-, -NHCON(H)-, -NHSO₂-, -SO₂N(H)-, -C(O)-O-, -NHSO₂NH-, -O-CO-,

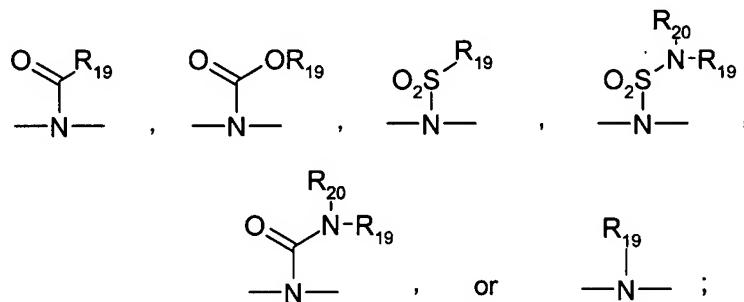


R₁₆, R₁₇, and R₁₈ comprise hydrogen, aryl, C₁-C₆ alkyl, C₁-C₆ alkylaryl, C₁-C₆ alkoxy, or C₁-C₆ alkoxyaryl; or

- c) halogen, hydroxyl, cyano, carbamoyl, or carboxyl; and

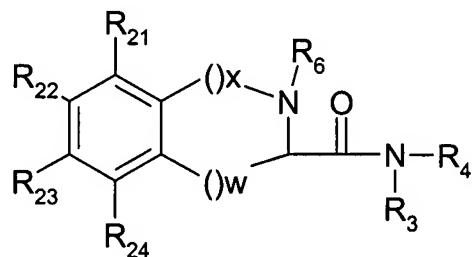
R₁₄ and R₁₅ independently comprise hydrogen, aryl, C₁-C₆ alkyl, or C₁-C₆ alkylaryl; and wherein

R₁₄ and R₁₅ may be taken together to form a ring having the formula -(CH₂)_o-Z-(CH₂)_p- bonded to the nitrogen atom to which R₁₄ and R₁₅ are attached, and/or R₇ and R₈ may, independently, be taken together to form a ring having the formula -(CH₂)_o-Z-(CH₂)_p- bonded to the atoms to which R₇ and R₈ are attached, wherein o and p are, independently, 1, 2, 3, or 4; Z comprises a direct bond, -CH₂-, -O-, -S-, -S(O₂)-, -C(O)-, -CON(H)-, -NHC(O)-, -NHCON(H)-, -NHSO₂-, -SO₂N(H)-, -C(O)-O-, -O-C(O)-, -NHSO₂NH-,



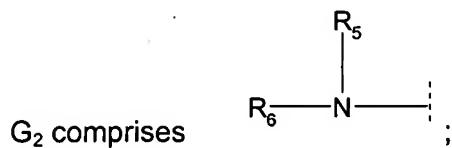
R_{19} and R_{20} independently comprise hydrogen, aryl, $\text{C}_1\text{-C}_6$ alkyl, or $\text{C}_1\text{-C}_6$ alkylaryl.

2. (Original) The compound of claim 1, represented by Formula (Ia)



(Ia)

wherein G_1 comprises a direct bond;



R_1 comprises H;

() comprises a $-\text{CH}_2-$ group or a direct covalent bond, and x and w are independently equal to 0 to 2, with the proviso that x and w can not both be equal to 0;

R_3 comprises

- a) hydrogen;
- b) $-\text{C}_{1-6}$ alkyl;

- c) $-C_{1-6}$ alkylaryl; or
- d) $-C_{1-6}$ alkoxyaryl;

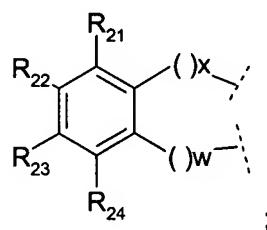
R_4 comprises

- a) $-C_{1-6}$ alkylaryl;
- b) $-C_{1-6}$ alkoxyaryl; or
- c) -aryl;

R_6 comprises

- a) -H;
- b) $-C_{1-6}$ alkyl;
- c) -aryl;
- d) $-C_{1-6}$ alkylaryl; or
- e) a group selected from $-C(O)R_{25}$, $-C(O)OR_{25}$, $-C(O)NR_{26}R_{25}$, $-S(O)_2R_{25}$, and $-S(O)_2NR_{26}R_{25}$; wherein R_{25} and R_{26} independently comprise $-C_{1-6}$ alkyl, aryl, or $-C_{1-6}$ alkylaryl;

R_5 and R_2 are taken together to form a ring of structure



wherein R_{21} , R_{22} , R_{23} and R_{24} independently comprise

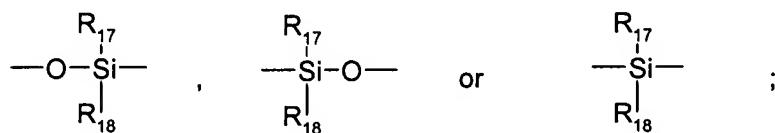
- i) -H;
- ii) $-C_{1-6}$ alkyl;
- iii) -aryl;
- iv) $-C_{1-6}$ alkylaryl; or
- v) a group of the formula $-U-R_{27}$, wherein U comprises $-C(O)-$, $-C(O)O-$, $-O-$, $-S-$, $-S(O)-$, $-S(O)_2-$, or $-NR_{28}-$,

wherein R_{27} and R_{28} independently comprise $-H$, $-aryl$, $-C_{1-6}$ alkyl, or $-C_{1-6}$ alkylaryl;

the aryl and/or alkyl group(s) in R_3 , R_4 , and R_6 may be optionally substituted 1-4 times with a substituent group, wherein said substituent group(s) or the term substituted refers to groups comprising:

- a) $-H$;
- b) $-Y-C_{1-6}$ alkyl;
- $-Y-aryl$;
- $-Y-C_{1-6}$ alkylaryl;
- $-Y-C_{1-6}$ -alkyl- $NR_{14}R_{15}$;
- $-Y-C_{1-6}$ -alkyl- $W-R_{16}$;

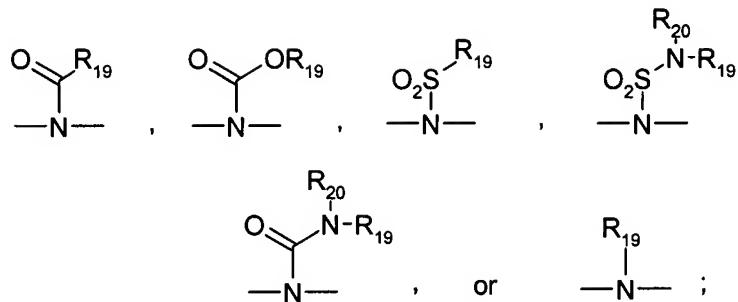
wherein Y and W independently comprise $-CH_2-$, $-O-$, $-N(H)$, $-S-$, SO_2- , $-CON(H)-$, $-NHC(O)-$, $-NHCON(H)-$, $-NHSO_2-$, $-SO_2N(H)-$, $-C(O)-O-$, $-NHSO_2NH-$, $-O-CO-$,



R_{16} , R_{17} , and R_{18} independently comprise hydrogen, aryl, C_1-C_6 alkyl, C_1-C_6 alkylaryl, C_1-C_6 alkoxy, or C_1-C_6 alkoxyaryl; or

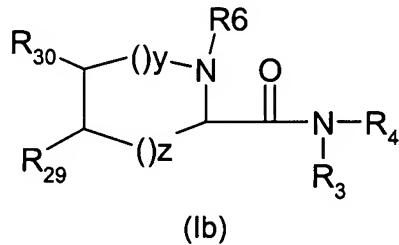
- c) halogen, hydroxyl, cyano, carbamoyl, or carboxyl; and

R_{14} and R_{15} independently comprise hydrogen, aryl, C_1-C_6 alkyl, and C_1-C_6 alkylaryl; or wherein R_{14} and R_{15} may be taken together to form a ring having the formula $-(CH_2)_o-Z-(CH_2)_p-$ bonded to the nitrogen atom to which R_{14} and R_{15} are attached, wherein o and p are, independently, 1, 2, 3, or 4; Z comprises a direct bond, $-CH_2-$, $-O-$, $-S-$, $-S(O_2)-$, $-C(O)-$, $-CON(H)-$, $-NHC(O)-$, $-NHCON(H)-$, $-NHSO_2-$, $-SO_2N(H)-$, $-C(O)-O-$, $-O-C(O)-$, $-NHSO_2NH-$,



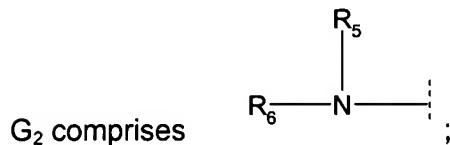
R_{19} and R_{20} comprise hydrogen, aryl, C_1 - C_6 alkyl, or C_1 - C_6 alkylaryl.

3. (Original) The compound of claim 1, represented by Formula (Ib)



wherein,

G_1 comprises a direct bond;



R_1 comprises H;

() comprises a $-CH_2-$ group or a direct covalent bond, and y and z are, independently, an integer of from 0 to 3;

R_3 comprises

- hydrogen;
- $-C_{1-6}$ alkyl;
- $-C_{1-6}$ alkylaryl; or
- $-C_{1-6}$ alkoxyaryl;

R_4 comprises

- a) $-C_{1-6}$ alkylaryl;
- b) $-C_{1-6}$ alkoxyaryl; or
- c) $-aryl$;

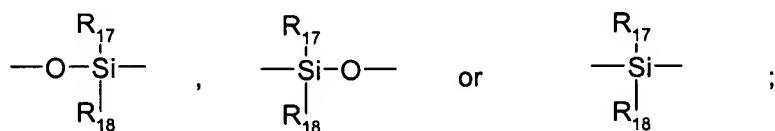
R_6 comprises

- a) $-H$;
- b) $-C_{1-6}$ alkyl;
- c) $-aryl$;
- d) $-C_{1-6}$ alkylaryl; or
- e) a group selected from $-C(O)R_{25}$, $-C(O)OR_{25}$, $-C(O)NR_{26}R_{25}$, $-S(O)_2R_{25}$, and $-S(O)_2NR_{26}R_{25}$; wherein R_{25} and R_{26} independently comprise $-C_{1-6}$ alkyl, aryl, or $-C_{1-6}$ alkylaryl;

the aryl and/or alkyl group(s) in R_3 , R_4 , and R_6 may be optionally substituted 1-4 times with a substituent group, wherein said substituent group(s) or the term substituted refers to groups comprising:

- a) $-H$;
- b) $-Y-C_{1-6}$ alkyl;
 $-Y-aryl$;
 $-Y-C_{1-6}$ alkylaryl;
 $-Y-C_{1-6}$ -alkyl- $NR_{14}R_{15}$;
 $-Y-C_{1-6}$ -alkyl- $W-R_{16}$;

wherein Y and W independently comprise $-CH_2-$, $-O-$, $-N(H)$, $-S-$, SO_2- , $-CON(H)-$, $-NHC(O)-$, $-NHCON(H)-$, $-NHSO_2-$, $-SO_2N(H)-$, $-C(O)-O-$, $-NHSO_2NH-$, $-O-CO-$,

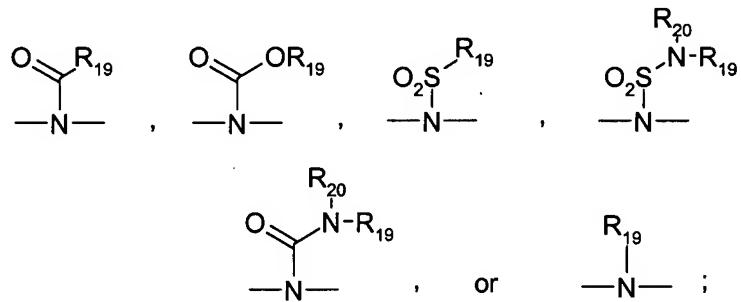


R_{16} , R_{17} , and R_{18} comprise hydrogen, aryl, C_1 - C_6 alkyl, C_1 - C_6 alkylaryl, C_1 - C_6 alkoxy, or C_1 - C_6 alkoxyaryl; or

c) halogen, hydroxyl, cyano, carbamoyl, or carboxyl; and

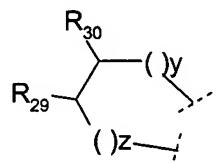
R_{14} and R_{15} independently comprise hydrogen, aryl, C_1 - C_6 alkyl, or C_1 - C_6 alkylaryl; and wherein

R_{14} and R_{15} may be taken together to form a ring having the formula $-(CH_2)_o-Z-(CH_2)_p-$ bonded to the nitrogen atom to which R_{14} and R_{15} are attached, wherein o and p are, independently, 1, 2, 3, or 4; Z comprises a direct bond, $-CH_2-$, $-O-$, $-S-$, $-S(O_2)-$, $-C(O)-$, $-CON(H)-$, $-NHC(O)-$, $-NHCON(H)-$, $-NHSO_2-$, $-SO_2N(H)-$, $-C(O)-O-$, $-O-C(O)-$, $-NHSO_2NH-$,



R_{19} and R_{20} comprise hydrogen, aryl, C_1 - C_6 alkyl, or C_1 - C_6 alkylaryl;

R_5 and R_2 are taken together to form a ring of structure



wherein R_{29} and R_{30} independently comprise

- a) $-H$
- b) $-C_{1-6}$ alkyl;
- c) aryl;
- d) $-C_{1-6}$ alkylaryl;
- e) $-C(O)-O-C_{1-6}$ alkyl;

- f) $-\text{C}(\text{O})-\text{O}-\text{C}_{1-6}$ alkylaryl;
- g) $-\text{C}(\text{O})-\text{NH}-\text{C}_{1-6}$ alkyl;
- h) $-\text{C}(\text{O})-\text{NH}-\text{C}_{1-6}$ alkylaryl;
- i) $-\text{SO}_2-\text{C}_{1-6}$ alkyl;
- j) $-\text{SO}_2-\text{C}_{1-6}$ alkylaryl;
- k) $-\text{SO}_2$ -aryl;
- l) $-\text{SO}_2-\text{NH}-\text{C}_{1-6}$ alkyl;
- m) $-\text{SO}_2-\text{NH}-\text{C}_{1-6}$ alkylaryl;
- n) $-\text{C}(\text{O})-\text{C}_{1-6}$ alkyl;
- o) $-\text{C}(\text{O})-\text{C}_{1-6}$ alkylaryl; or
- p) a group of the formula $-\text{V}-\text{R}_{31}$,

wherein V comprises a group of the formula $-\text{C}(\text{O})$, $-\text{OC}(\text{O})-$, $-\text{O}-$, $-\text{S}-$, $-\text{S}(\text{O})-$, $-\text{S}(\text{O}_2)-$, $-\text{NH}-$, or $-\text{N}(\text{R}_{32})-$;

wherein R_{31} and R_{32} comprise

- i) $-\text{H}$
- ii) $-\text{C}_{1-6}$ alkyl;
- iii) $-\text{aryl}$;
- iv) $-\text{C}_{1-6}$ alkylaryl;
- v) $-\text{C}(\text{O})-\text{O}-\text{C}_{1-6}$ alkyl;
- vi) $-\text{C}(\text{O})-\text{O}-\text{C}_{1-6}$ alkylaryl;
- vii) $-\text{C}(\text{O})-\text{NH}-\text{C}_{1-6}$ alkyl; $-\text{C}(\text{O})-\text{NH}-\text{C}_{1-6}$ alkylaryl;
- viii) $-\text{SO}_2-\text{C}_{1-6}$ alkyl;
- ix) $-\text{SO}_2-\text{C}_{1-6}$ alkylaryl;
- x) $-\text{SO}_2$ -aryl;
- xi) $-\text{SO}_2-\text{NH}-\text{C}_{1-6}$ alkyl;
- xii) $-\text{SO}_2-\text{NH}-\text{C}_{1-6}$ alkylaryl;
- xiii) $-\text{C}(\text{O})-\text{C}_{1-6}$ alkyl; or
- xiv) $-\text{C}(\text{O})-\text{C}_{1-6}$ alkylaryl;

wherein R_{29} , R_{30} , R_{31} , and R_{32} may be optionally substituted 1-4 times with a substituent group, wherein said substituent group(s) or the term substituted refers to groups comprising:

- a) $-\text{H}$;

b) -L-C₁₋₆ alkyl;

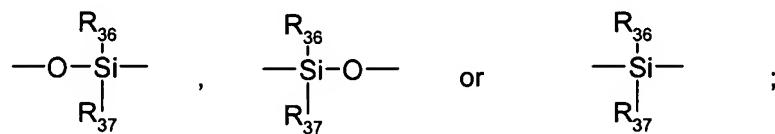
-L-aryl;

-L-C₁₋₆ alkylaryl;

-L-C₁₋₆-alkyl-NR₃₃R₃₄;

-L-C₁₋₆ alkyl-Q₂-R₃₅;

wherein L and Q₂ independently comprise -CH₂-, -O-, -N(H), -S-, SO₂-, -CON(H)-, -NHC(O)-, -NHCON(H)-, -NHSO₂-, -SO₂N(H)-, -C(O)-O-, -NHSO₂NH-, -O-CO-,

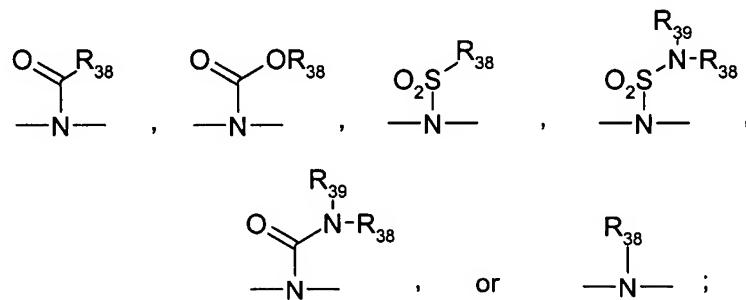


R₃₅, R₃₆, and R₃₇ comprise hydrogen, aryl, C₁-C₆ alkyl, C₁-C₆ alkylaryl, C₁-C₆ alkoxy, or C₁-C₆ alkoxyaryl; or

c) halogen, hydroxyl, cyano, carbamoyl, or carboxyl; and

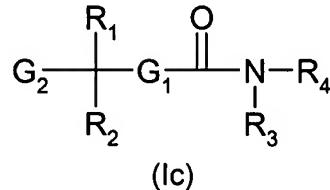
R₃₃ and R₃₄ independently comprise hydrogen, aryl, C₁-C₆ alkyl, or C₁-C₆ alkylaryl; and wherein

R₃₃ and R₃₄ may be taken together to form a ring having the formula -(CH₂)_e-J-(CH₂)_k- bonded to the nitrogen atom to which R₃₃ and R₃₄ are attached, wherein e and k are, independently, 1, 2, 3, or 4; J comprises a direct bond, -CH₂-, -O-, -S-, -S(O₂)-, -C(O)-, -CON(H)-, -NHC(O)-, -NHCON(H)-, -NHSO₂-, -SO₂N(H)-, -C(O)-O-, -O-C(O)-, -NHSO₂NH-,



R₃₈ and R₃₉ comprises hydrogen, aryl, C₁-C₆ alkyl, or C₁-C₆ alkylaryl.

4. (Original) The compound of claim 1, represented by Formula (Ic):

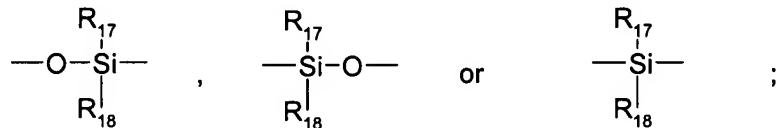


wherein,

R_1 comprises hydrogen, or C_{1-3} alkylaryl wherein the aryl is substituted with $-Y-C_{1-6}$ alkylaryl;

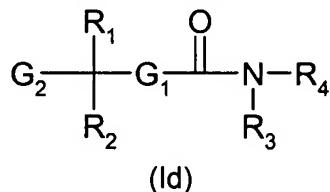
R_2 comprises C_{1-3} alkylaryl wherein the aryl is substituted with $-Y-C_{1-6}$ alkylaryl,

wherein Y comprises $-\text{CH}_2-$, $-\text{O}-$, $-\text{N}(\text{H})-$, $-\text{S}-$, SO_2- , $-\text{CON}(\text{H})-$, $-\text{NHC}(\text{O})-$, $-\text{NHCON}(\text{H})-$, $-\text{NHSO}_2-$, $-\text{SO}_2\text{N}(\text{H})-$, $-\text{C}(\text{O})-\text{O}-$, $-\text{NHSO}_2\text{NH}-$, $-\text{O}-\text{CO}-$,



R_{17} , and R_{18} independently comprises hydrogen, aryl, C_{1-C_6} alkyl, C_{1-C_6} alkylaryl, C_{1-C_6} alkoxy, or C_{1-C_6} alkoxyaryl.

5. (Original) The compound of claim 1, represented by Formula (Id):

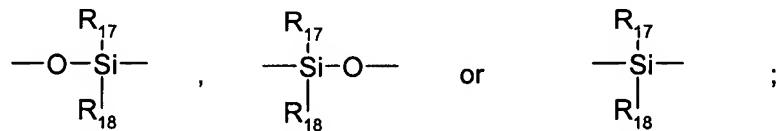


wherein,

R_1 comprises hydrogen, or C_{1-3} alkylaryl wherein the aryl is substituted with $-Y-C_{1-6}$ alkylaryl;

R_2 comprises C_{1-3} alkylaryl wherein the aryl is substituted with $-Y-C_{1-6}$ alkylaryl;

wherein Y comprises -CH₂-, -O-, -N(H), -S-, SO₂-, -CON(H)-, -NHC(O)-, -NHCON(H)-, -NHSO₂-, -SO₂N(H)-, -C(O)-O-, -NHSO₂NH-, -O-CO-,

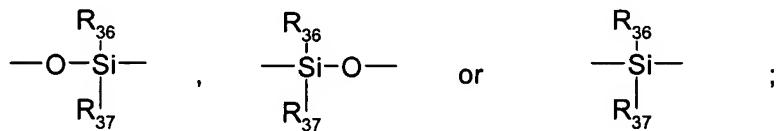


R₁₇, and R₁₈ independently comprises hydrogen, aryl, C₁-C₆ alkyl, C₁-C₆ alkylaryl, C₁-C₆ alkoxy, or C₁-C₆ alkoxyaryl;

R₃ comprises hydrogen or -L-C₁₋₆-alkyl-N(alkyl)₂;

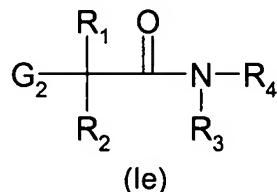
R₄ comprises -L-C₁₋₆-alkyl-N(alkyl)₂;

wherein L comprises -CH₂-, -O-, -N(H)-, -S-, SO₂-, -CON(H)-, -NHC(O)-, -NHCON(H)-, -NHSO₂-, -SO₂N(H)-, -C(O)-O-, -NHSO₂NH-, -O-CO-,



R₃₅, R₃₆, and R₃₇ independently comprise hydrogen, aryl, C₁-C₆ alkyl, C₁-C₆ alkylaryl, C₁-C₆ alkoxy, or C₁-C₆ alkoxyaryl.

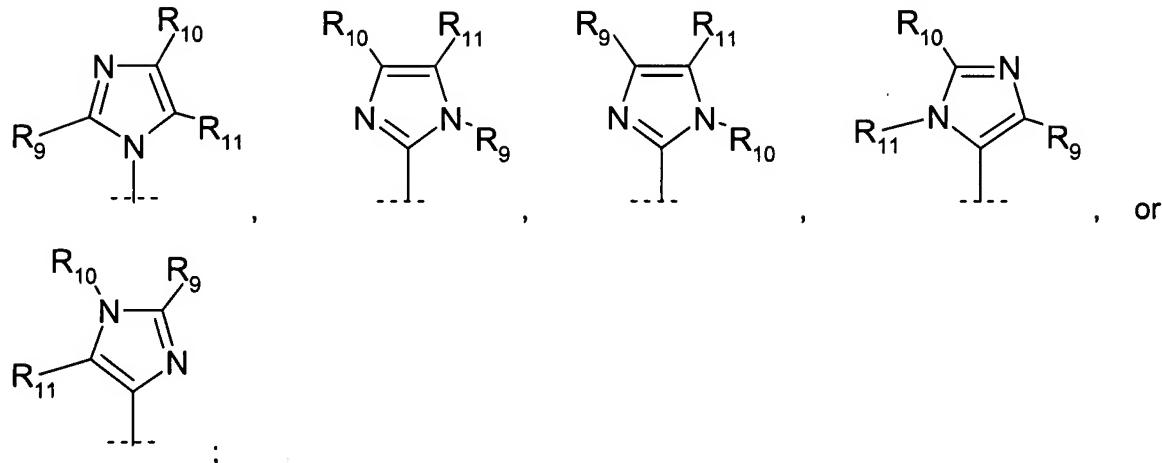
6. (Original) The compound of claim 1, represented by Formula (Ie):



wherein,

G₁ comprises a direct bond;

G₂ comprises a group of the formula



wherein

R₉, R₁₀, and R₁₁ may be hydrogen; or

R₉, R₁₀, and R₁₁ independently comprise

- i) -C₁₋₆ alkyl;
- ii) -aryl;
- iii) -C₁₋₆ alkylaryl;
- iv) -C(O)-O-C₁₋₆ alkyl;
- v) -C(O)-O-C₁₋₆ alkylaryl;
- vi) -C(O)-NH-C₁₋₆ alkyl;
- vii) -C(O)-NH-C₁₋₆ alkylaryl;
- viii) -SO₂-C₁₋₆ alkyl;
- ix) -SO₂-C₁₋₆ alkylaryl;
- x) -SO₂-aryl;
- xi) -SO₂-NH-C₁₋₆ alkyl;
- xii) -SO₂-NH-C₁₋₆ alkylaryl;
- xiii) -C(O)-C₁₋₆ alkyl; or
- xiv) -C(O)-C₁₋₆ alkylaryl; or

R₁₀ and R₁₁ may be taken together to constitute a fused cycloalkyl, fused heterocyclyl, or fused aryl ring containing the atoms to which R₁₀ and R₁₁ are bonded;

R₁ comprises H;

R₂ comprises

- a) -C₁₋₆ alkyl;
- b) -aryl; or
- c) -C₁₋₆ alkylaryl;

R₃ comprises

- a) hydrogen;
- b) -C₁₋₆ alkyl;
- c) -C₁₋₆ alkylaryl; or
- d) -C₁₋₆ alkoxyaryl;

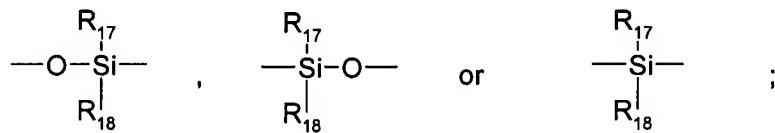
R₄ comprises

- a) -C₁₋₆ alkylaryl;
- b) -C₁₋₆ alkoxyaryl; or
- c) -aryl;

the aryl and/or alkyl group(s) in R₂, R₃, R₄, R₉, R₁₀, R₁₁ may be optionally substituted 1-4 times with a substituent group, wherein said substituent group(s) or the term substituted refers to groups comprising:

- a) -H;
- b) -Y-C₁₋₆ alkyl;
-Y-aryl;
-Y-C₁₋₆ alkylaryl;
-Y-C₁₋₆-alkyl-NR₁₄R₁₅;
-Y-C₁₋₆-alkyl-W-R₁₆;

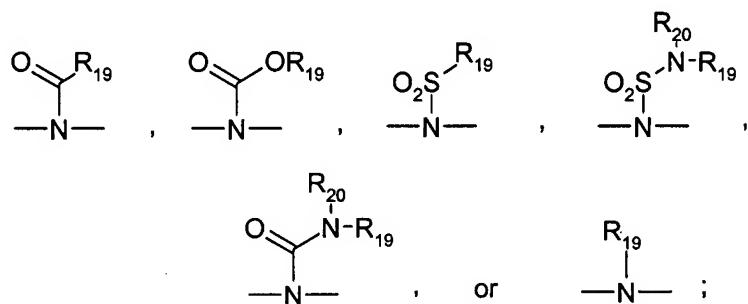
wherein Y and W independently comprise -CH₂-, -O-, -N(H), -S-, SO₂-, -CON(H)-, -NHC(O)-, -NHCON(H)-, -NHSO₂-, -SO₂N(H)-, -C(O)-O-, -NHSO₂NH-, -O-CO-,



R₁₆, R₁₇, and R₁₈ comprise hydrogen, aryl, C₁-C₆ alkyl, C₁-C₆ alkylaryl, C₁-C₆ alkoxy, or C₁-C₆ alkoxyaryl; or

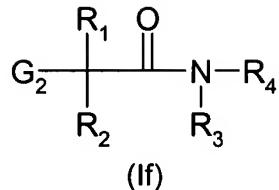
c) halogen, hydroxyl, cyano, carbamoyl, or carboxyl; and

R₁₄ and R₁₅ independently comprise hydrogen, aryl, C₁-C₆ alkyl, or C₁-C₆ alkylaryl; and wherein R₁₄ and R₁₅ may be taken together to form a ring having the formula -(CH₂)_o-Z-(CH₂)_p- bonded to the nitrogen atom to which R₁₄ and R₁₅ are attached, wherein o and p are, independently, 1, 2, 3, or 4; Z comprises a direct bond, -CH₂-, -O-, -S-, -S(O₂)-, -C(O)-, -CON(H)-, -NHC(O)-, -NHCON(H)-, -NHSO₂-, -SO₂N(H)-, -C(O)-O-, -O-C(O)-, -NHSO₂NH-,

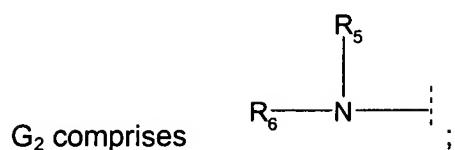


R₁₉ and R₂₀ independently comprise hydrogen, aryl, C₁-C₆ alkyl, or C₁-C₆ alkylaryl;

7. (Original) The compound of claim 1, represented by Formula (If):

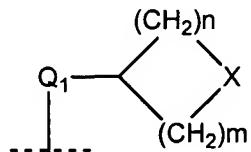


wherein,
G₁ comprises a direct bond;

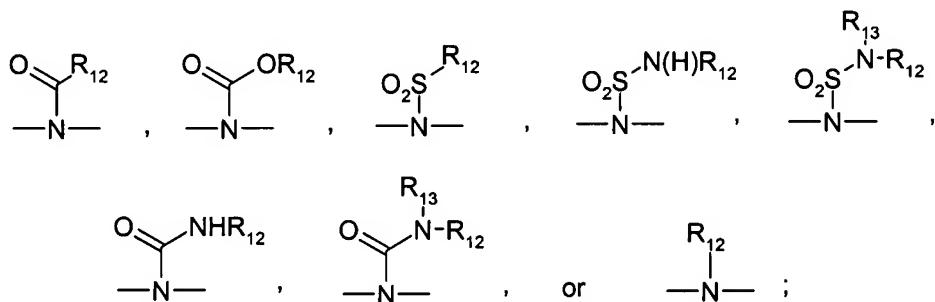


R_1 comprises H ;

R₂ comprises a group of the formula



wherein m and n are independently selected from 1, 2, 3, or 4; X comprises a direct bond, CH_2- , $-\text{O}-$, $-\text{S}-$, $-\text{S}(\text{O}_2)-$, $-\text{C}(\text{O})-$, $-\text{CON}(\text{H})-$, $-\text{NHC}(\text{O})-$, $-\text{NHCON}(\text{H})-$, $-\text{NHSO}_2-$, $-\text{SO}_2\text{N}(\text{H})-$, $-\text{C}(\text{O})\text{O}-$, $-\text{O}-\text{C}(\text{O})-$, $-\text{NHSO}_2\text{NH}-$,



-Q₁- comprises C₁₋₆ alkylene, C₂₋₆ alkenylene, or C₂₋₆ alkynylene;

R_{12} and R_{13} independently comprises hydrogen, C₁-C₆ alkyl, C₁-C₆ alkylaryl, or aryl; and wherein

R_3 comprises

- a) hydrogen;
- b) $-C_{1-6}$ alkyl;
- c) $-C_{1-6}$ alkylaryl; or
- d) $-C_{1-6}$ alkoxyaryl;

R_4 comprises

- a) $-C_{1-6}$ alkylaryl;
- b) $-C_{1-6}$ alkoxyaryl; or
- c) -aryl;

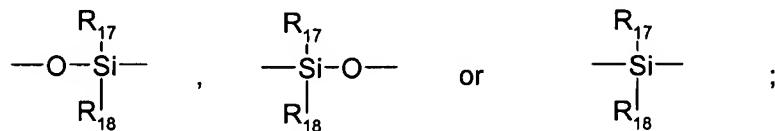
R_5 and R_6 independently comprise

- a) -H;
- b) $-C_{1-6}$ alkyl;
- c) -aryl;
- d) $-C_{1-6}$ alkylaryl; or
- e) a group selected from $-C(O)R_{25}$, $-C(O)OR_{25}$, $-C(O)NR_{26}R_{25}$, $-S(O)_2R_{25}$, and $-S(O)_2NR_{26}R_{25}$; wherein R_{25} and R_{26} independently comprise $-C_{1-6}$ alkyl, aryl, and $-C_{1-6}$ alkylaryl;

the aryl and/or alkyl group(s) in R_3 , R_4 , R_5 , R_6 , R_{12} , and R_{13} may be optionally substituted 1-4 times with a substituent group, wherein said substituent group(s) or the term substituted refers to groups comprising:

- a) -H;
- b) $-Y-C_{1-6}$ alkyl;
 $-Y$ -aryl;
 $-Y-C_{1-6}$ alkylaryl;
 $-Y-C_{1-6}$ -alkyl-NR₁₄R₁₅;
 $-Y-C_{1-6}$ -alkyl-W-R₁₆;

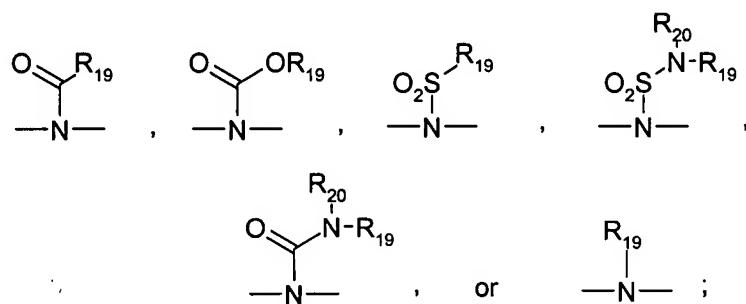
wherein Y and W independently comprise -CH₂-, -O-, -N(H), -S-, SO₂-, -CON(H)-, -NHC(O)-, -NHCON(H)-, -NHSO₂-, -SO₂N(H)-, -C(O)-O-, -NHSO₂NH-, -O-CO-,



R₁₆, R₁₇, and R₁₈ independently comprise hydrogen, aryl, C₁-C₆ alkyl, C₁-C₆ alkylaryl, C₁-C₆ alkoxy, or C₁-C₆ alkoxyaryl; or

c) halogen, hydroxyl, cyano, carbamoyl, or carboxyl; and

R₁₄ and R₁₅ independently comprises hydrogen, aryl, C₁-C₆ alkyl, or C₁-C₆ alkylaryl; and wherein R₁₄ and R₁₅ may be taken together to form a ring having the formula -(CH₂)_o-Z-(CH₂)_p- bonded to the nitrogen atom to which R₁₄ and R₁₅ are attached, wherein o and p are, independently, 1, 2, 3, or 4; Z comprises a direct bond, -CH₂-, -O-, -S-, -S(O₂)-, -C(O)-, -CON(H)-, -NHC(O)-, -NHCON(H)-, -NHSO₂-, -SO₂N(H)-, -C(O)-O-, -O-C(O)-, -NHSO₂NH-,



R₁₉ and R₂₀ independently comprise hydrogen, aryl, C₁-C₆ alkyl, or C₁-C₆ alkylaryl.

8. Cancelled.

9. Cancelled.